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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/526,736	07/21/2005	Gabriel Malamud	PHIL020004US	7882
38107 7590 12/27/2006 PHILIPS INTELLECTUAL PROPERTY & STANDARDS 595 MINER ROAD CLEVELAND, OH 44143			EXAMINER YUN, JURIE	
			ART UNIT	PAPER NUMBER
			2882	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	12/27/2006	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

# Office Action Summary

Application No.

10/526,736

Applicant(s)

MALAMUD, GABRIEL

Examiner

Jurie Yun

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 21 July 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 March 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 3/4/05
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. The preliminary amendment filed 3/4/05 has been entered.

#### *Claim Objections*

2. Claim 6 is objected to because of the following informalities: claim 6 does not make any sense. It is assumed that there is a typo and that perhaps the claim should read "wherein foil between columns of detectors extends towards the focal point to a height relative to the detector array that is different from a height to which foil located between ~~columns~~ rows of detectors extends towards the focal point." Appropriate correction is required.

#### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

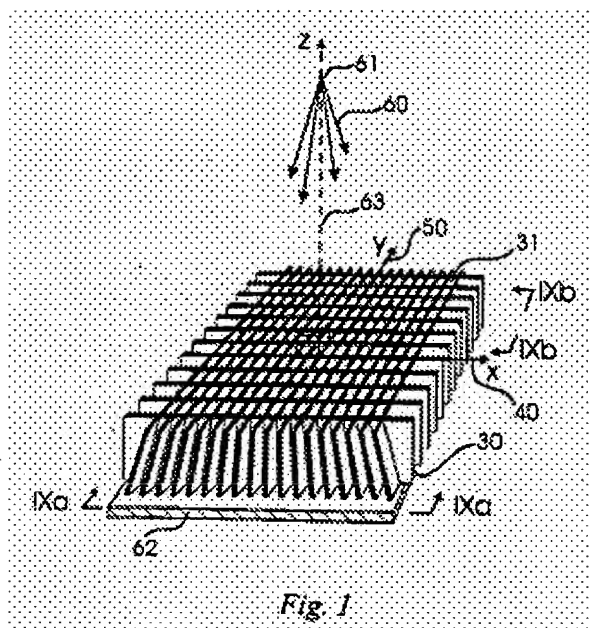
A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 2, 5, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Tang (USPN 5,949,850).
5. With respect to claim 1, Tang discloses a CT scanner (column 8, lines 25-29) comprising a stator and a rotor having an axis of rotation mounted to the stator so that the rotor is rotatable about the axis of rotation comprising: an X-ray source mounted to the rotor, said X-ray source having a focal spot from which X-rays emanate (this is inherent in CT systems); an X-ray detector array (Fig. 1, 62) comprising a matrix of rows and columns of X-ray detectors; anti-scattering (AS) material (30) for absorbing X-rays

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positioned between columns of the X-ray detectors; and anti-scattering (AS) material (30) for absorbing X-rays positioned between rows of the X-ray detectors (column 4, lines 13-23).



6. With respect to claim 2, Tang discloses as seen from a perspective of a first coordinate system located in substantially any first detector of the detector array and a homologous coordinate system located in substantially any second detector of the detector array, the AS material has substantially a same configuration to within a parity transformation and/or a rotation transformation (see Fig. 3 & column 4, lines 13-23).

7. With respect to claim 5, Tang discloses the AS material is formed in a shape of a thin foil for which for any point on the foil a segment of a line from the focal point of the X-ray source to the point lies substantially within or on the surface of the foil (column 4, lines 13-23).

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8. With respect to claim 8, Tang discloses the detectors have a hexagonal shape and the foil is shaped to follow the hexagonal shape of the detectors (column 4, lines 13-23 & column 8, lines 50-52).

***Claim Rejections - 35 USC § 103***

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tang (USPN 5,949,850) as applied to claims 1 and 2 above, and further in view of Baba et al. (USPN 6,895,080 B2).

11. With respect to claims 3 and 4, Tang does not disclose the AS material is located between every other row of detectors or that the AS material is located between every other column of detectors. Baba et al. disclose this (abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the AS material in Tang be located between every other row of detectors or to have the AS material located between every other column of detectors, to reduce Moire effects resulting in a better image, as taught by Baba et al.

12. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tang (USPN 5,949,850) as applied to claims 1, 2, and 5 above, and further in view of Hase et al. (USPN 5,099,134).

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13. With respect to claims 6 and 7, Tang does not disclose foil between columns of detectors extends towards the focal point to a height relative to the detector array that is different from a height to which foil located between rows of detectors extends towards the focal point, and wherein the thickness of the foil between rows is different from thickness of the foil between columns. Hase et al. disclose this (Fig. 15 & column 6, line 67 – column 7, line 7). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have this configuration in the Tang grid, for higher resolution and for ease of repair and maintenance, as taught by Hase et al. (column 8, lines 46-54).

### ***Conclusion***

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wieczorek (USPN 6,784,432 B2) discloses an X-ray detector module with an anti-scatter grid located between rows and columns of the detector array.

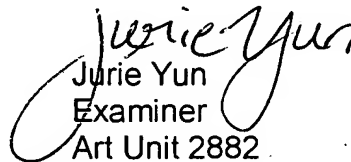
15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jurie Yun whose telephone number is 571 272-2497.

The examiner can normally be reached on Monday-Friday 8:30-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on 571 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Julie Yun  
Examiner  
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December 19, 2006